

IN THE CLAIMS:

Please amend the claims as follows:

Claims 1 - 6 (Cancelled).

7. (Original) Method to compensate the temperature dependence of the signal in a measuring device for coating thickness using a magnetic sensor element as measuring device, wherein the resistance of the magnetic sensor element is determined to receive a temperature signal which is used, together with the temperature coefficients of the magnetic sensor element, to determine a factor to correct the output voltage so that the corrected value of the output voltage is related to a reference temperature.

8. (Original) Method of claim 7, wherein the correction of the signal voltage is done by adjusting the current through the resistance of the magnetic sensor element.

9. (Original) The method of claim 7, wherein the correction of the measured output voltage is performed by calculation.

Claims 10 and 11 (Cancelled)

12. (Original) The method of claim 7, wherein the magnetic sensor is a Hall-sensor element.

13. (Original) The method of claim 7, wherein the magnetic sensor is a GMR-sensor element.